

Ying WEN

Curriculum Vitae

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Google Scholar

Seeking an Academic Position by September 2020.

Education

- 2016 – 2020 **University College London**, *Ph.D. Candidate*, in Computer Science.
(Expected) *Research Interests*: Multi-agent Reinforcement Learning, Computational Advertising.
London, UK *Supervisor*: Prof. Jun Wang.
Award: Feldman Scholarship.
- 2015 – 2016 **University College London**, *Master of Research*, **Distinction Honor**.
London, UK *Thesis*: Learning Distributed Representation of Categorical Data.
Supervisor: Prof. Jun Wang.
- 2011 – 2015 **Beijing University of Posts and Telecommunications**, *B.Sc(Eng)*, **First Class Honor**.
Beijing, CN *Awards*: First Class Academic Scholarship, Merit Student Honor, Excellent Student Cadre.

Experience

- Apr 2016 – **MediaGamma**, *Research Intern*.
London, UK Real-time decision making optimization and large-scale user response prediction systems using deep learning and reinforcement learning models. Applications in production: click-through rate estimator, landscape/audience modeling and campaign optimization.
- Mar 2015 – **Amazon**, *Business Analyst Intern*.
Sep 2015 Building automation tool to analyze and optimize the key metrics from massive supply chain data
Beijing, CN in Fulfillment Centers (Amazon China).
- Jun 2014 – **Baidu**, *Software Engineer Intern*.
Oct 2014 Participated in development of APIs of Baidu Map LBS open platform.
Beijing, CN

Selected Publication

- 2019 Tian, Zheng*; **Wen, Ying***; Gong, Zhichen; Punakkath, Faiz; Zou, Shihao; Wang, Jun, A Regularized Opponent Model with Maximum Entropy Objective, IJCAI 2019, the first two authors have equal contributions.
- 2019 **Wen, Ying**; Yang, Yaodong; Luo, Rui; Wang, Jun; Pan, Wei", Probabilistic Recursive Reasoning for Multi-Agent Reinforcement Learning, ICLR 2019.
- 2019 **Wen, Ying**; Chen, Tianyao; Zhang, Weinan; Wang, Jun, Pairwise Multi-Layer Nets for Learning Distributed Representation of Multi-field Categorical Data, DLP-KDD 2019.
- 2018 Yang, Yaodong; Yu, Lantao; Bai, Yiwei; **Wen, Ying**; Zhang, Weinan; Wang, Jun. A Study of AI Population Dynamics with Million-Agent Reinforcement Learning, AAMAS 2018.
- 2018 Zhang, Haifeng; Wang, Jun; Zhou, Zhiming; Zhang, Weinan; **Wen, Ying**; Yu, Yong; Li, Wenxin. Learning to Design Games: Strategic Environments in Deep Reinforcement Learning, IJCAI 2018.

- 2017 Peng, Peng*; **Wen, Ying***; Yang, Yaodong; Yuan, Quan; Tang, Zhenkun; Long, Haitao; Wang, Jun, Multiagent Bidirectionally-Coordinated Nets, Emergent Communication Workshop, NIPS 2017, the first two authors have equal contributions.
- 2016 Qu, Yanru; Cai, Han; Ren, Kan; Zhang, Weinan; Yu, Yong; **Wen, Ying**; Wang, Jun. Product-based Neural Networks for User Response Prediction, ICDM 2016.
- 2016 **Wen, Ying**; Zhang, Weinan; Luo, Rui; Wang, Jun, Learning Text Representation Using Recurrent Convolutional Neural Network with Highway Layers, Neu-IR, SIGIR 2016.

Preprint

- 2019 **Wen, Ying**; Yang, Yaodong; Luo, Rui; Wang, Jun, Generalized Recursive Reasoning for Bounded Rationality in Multi-Agent Interactions, Under review by NeurIPS 2019.
- 2019 Du, Manxing; Cowen-Rivers, Alexander I.; **Wen, Ying**; Sakulwongtana, Phu; Wang, Jun; Brorsson, Mats; State, Radu, Infer Your Enemies and Know Yourself, Learning in Real-Time Bidding with Partially Observable Opponents, arXiv preprint arXiv:1902.11212.
- 2019 Chen, Yong; Zhou, Ming; **Wen, Ying**, Yang, Yaodong; Su, Yufeng; Zhang Weinan; Zhang, Dell; Wang, Jun; Liu, Han, Factorized Q-Learning for Large-Scale Multi-Agent Systems, arXiv preprint arXiv:1809.03738.

Teaching

- 2018/19 MSc/MRes Research Project, Second Supervisor.
- 2019 COMP1024: Multi-agent Artificial Intelligence, Teaching Assistant.
- 2017/18/19 COMPGI15/M052: Information Retrieval and Data Mining, Teaching Assistant.
- 2017/18 COMPGW02/M041: Web Economics, Teaching Assistant.

Open Source Project

- 2019 MALib: A Multi-agent Reinforcement Learning Framework. Github Link..